

DT09 1000 0017:0 10 MAR 2005

## SEQUENCE LISTING

&lt;110&gt; PURATOS N.V.

&lt;120&gt; USE OF FAMILY 8 ENZYMES WITH XYLANOLYTIC ACTIVITY IN BAKING

&lt;130&gt; P.PURA.19/WO

&lt;160&gt; 8

&lt;170&gt; PatentIn version 3.2

&lt;210&gt; 1

&lt;211&gt; 28

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; sense primer

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&lt;211&gt; 26

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; antisense primer

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&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; sequencing primer

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&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; sequencing primer

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&lt;211&gt; 21

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; sequencing primer

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<211> 1281  
<212> DNA  
<213> Pseudoalteromonas haloplanktis

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<221> misc\_feature  
<223> xylanase gene of Pseudoalteromonas haloplanktis (EMBL accession number AJ427921)

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atgtttggct ataacaacac acaacaactt tactacccgt acaccgaaaa cgggtgtttat 240  
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<213> Pseudoalteromonas haloplanktis

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&lt;221&gt; misc\_feature

<223> xylanase of *Pseudoalteromonas haloplanktis* (EMBL accession number AJ427921)

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Tyr Gln Ser Leu Ala Ala Phe Asn Asn Asn Pro Ser Ser Val Gly Ala  
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Tyr Ser Ser Gly Thr Tyr Arg Asn Leu Ala Gln Glu Met Gly Lys Thr  
 35 40 45

Asn Ile Gln Gln Lys Val Asn Ser Thr Phe Asp Asn Met Phe Gly Tyr  
 50 55 60

Asn Asn Thr Gln Gln Leu Tyr Tyr Pro Tyr Thr Glu Asn Gly Val Tyr  
 65 70 75 80

Lys Ala His Tyr Ile Lys Ala Ile Asn Pro Asp Glu Gly Asp Asp Ile  
 85 90 95

Arg Thr Glu Gly Gln Ser Trp Gly Met Thr Ala Ala Val Met Leu Asn  
 100 105 110

Lys Gln Glu Glu Phe Asp Asn Leu Trp Arg Phe Ala Lys Ala Tyr Gln  
 115 120 125

Lys Asn Pro Asp Asn His Pro Asp Ala Lys Lys Gln Gly Val Tyr Ala  
 130 135 140

Trp Lys Leu Lys Leu Asn Gln Asn Gly Phe Val Tyr Lys Val Asp Glu  
 145 150 155 160

Gly Pro Ala Pro Asp Gly Glu Glu Tyr Phe Ala Phe Ala Leu Leu Asn  
 165 170 175

Ala Ser Ala Arg Trp Gly Asn Ser Gly Glu Phe Asn Tyr Tyr Asn Asp  
 180 185 190

Ala Ile Thr Met Leu Asn Thr Ile Lys Asn Lys Leu Met Glu Asn Gln  
 195 200 205

Ile Ile Arg Phe Ser Pro Tyr Ile Asp Asn Leu Thr Asp Pro Ser Tyr  
 210 215 220

His Ile Pro Ala Phe Tyr Asp Tyr Phe Ala Asn Asn Val Thr Asn Gln  
 225 230 235 240

Ala Asp Lys Asn Tyr Trp Arg Gln Val Ala Thr Lys Ser Arg Thr Leu  
 245 250 255

Leu Lys Asn His Phe Thr Lys Val Ser Gly Ser Pro His Trp Asn Leu  
 260 265 270

Pro Thr Phe Leu Ser Arg Leu Asp Gly Ser Pro Val Ile Gly Tyr Ile  
 275 280 285

Phe Asn Gly Gln Ala Asn Pro Gly Gln Trp Tyr Glu Phe Asp Ala Trp  
 290 295 300

Arg Val Ile Met Asn Val Gly Leu Asp Ala His Leu Met Gly Ala Gln  
 305 310 315 320

Ala Trp His Lys Ser Ala Val Asn Lys Ala Leu Gly Phe Leu Ser Tyr  
 325 330 335

Ala Lys Thr Asn Asn Ser Lys Asn Cys Tyr Glu Gln Val Tyr Ser Tyr  
 340 345 350

Gly Gly Ala Gln Asn Arg Gly Cys Ala Gly Glu Gly Gln Lys Ala Ala  
 355 360 365

Asn Ala Val Ala Leu Leu Ala Ser Thr Asn Ala Gly Gln Ala Asn Glu  
 370 375 380

Phe Phe Asn Glu Phe Trp Ser Leu Ser Gln Pro Thr Gly Asp Tyr Arg  
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Tyr Tyr Asn Gly Ser Leu Tyr Met Leu Ala Met Leu His Val Ser Gly  
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Asn Phe Lys Phe Tyr Asn Asn Thr Phe Asn  
 420 425

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 <211> 388  
 <212> PRT  
 <213> Bacillus halodurans

<220>  
 <221> misc\_feature  
 <223> xylanase Y from Bacillus halodurans strain C-125  
 (GenBank/GenPept™ accession code BAB05824)

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Lys Asp Thr Trp Glu Gln Leu Phe Gly Asp Asn Pro Glu Thr Lys Ile  
 Page 4

35                      40                      45  
 Tyr Tyr Glu Val Gly Asp Asp Leu Gly Tyr Leu Leu Asp Thr Gly Asn  
     50                      55                      60  
 Leu Asp Val Arg Thr Glu Gly Met Ser Tyr Gly Met Met Met Ala Val  
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 Gln Met Asp Arg Lys Asp Ile Phe Asp Arg Ile Trp Asn Trp Thr Met  
                     85                      90                      95  
 Lys Asn Met Tyr Met Thr Glu Gly Val His Ala Gly Tyr Phe Ala Trp  
                     100                      105                      110  
 Ser Cys Gln Pro Asp Gly Thr Lys Asn Ser Trp Gly Pro Ala Pro Asp  
                     115                      120                      125  
 Gly Glu Glu Tyr Phe Ala Leu Ala Leu Phe Phe Ala Ser His Arg Trp  
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 Gly Asp Gly Asp Glu Gln Pro Phe Asn Tyr Ser Glu Gln Ala Arg Lys  
     145                      150                      155                      160  
 Leu Leu His Thr Cys Val His Asn Gly Glu Gly Gly Pro Gly His Pro  
                     165                      170                      175  
 Met Trp Asn Arg Asp Asn Lys Leu Ile Lys Phe Ile Pro Glu Val Glu  
                     180                      185                      190  
 Phe Ser Asp Pro Ser Tyr His Leu Pro His Phe Tyr Glu Leu Phe Ser  
                     195                      200                      205  
 Leu Trp Ala Asn Glu Glu Asp Arg Val Phe Trp Lys Glu Ala Ala Glu  
     210                      215                      220  
 Ala Ser Arg Glu Tyr Leu Lys Ile Ala Cys His Pro Glu Thr Gly Leu  
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 Ala Pro Glu Tyr Ala Tyr Tyr Asp Gly Thr Pro Asn Asp Glu Lys Gly  
                     245                      250                      255  
 Tyr Gly His Phe Phe Ser Asp Ser Tyr Arg Val Ala Ala Asn Ile Gly  
                     260                      265                      270  
 Leu Asp Ala Glu Trp Phe Gly Gly Ser Glu Trp Ser Ala Glu Glu Ile  
                     275                      280                      285  
 Asn Lys Ile Gln Ala Phe Phe Ala Asp Lys Glu Pro Glu Asp Tyr Arg  
     290                      295                      300  
 Arg Tyr Lys Ile Asp Gly Glu Pro Phe Glu Glu Lys Ser Leu His Pro  
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